

QIBA fMRI Reproducibility Work Group Call

Thursday, October 11, 2012 at 10 AM CT

Call Summary

Participants

James Voyvodic, PhD (Chair)

Paul Carson, PhD

Barbara Croft, MD

Ted DeYoe, PhD

Cathy Elsinger, PhD

Feroze Mohamed, PhD

Jeffrey Petrella, MD

RSNA

Joe Koudelik

Julie Lisiecki

Discussion

- Profile wordsmithing continued
- Combining map reproducibility in a no-change situation (i.e. test subject) with sensitivity in a change situation (i.e. patient) would help quantify fMRI
- Anatomical issues discussed associated with radiation therapy and tumor growth characteristics
- Dr. Voyvodic briefly summarized a comparison of vision, motor and language tasks performed under various conditions
 - Motor tasks appear more reproducible than language tasks

Questions to ask:

- How do we detect change?
- What is fMRI's ability to detect change in signal magnitude?

Profile updating:

- Dr. Voyvodic volunteered to modify Dr. Mohamed's latest document prior to the next call
- High frequency drift correction and temporal filtering must be added

Time slot for calls: 10 am CT on Thursdays after the Technical Committee call for this semester

Next steps

- Group to discuss areas of focus for next year's projects
- Poster for **RSNA 2012** assignments: Drs. DeYoe, Voyvodic, and Pillai to provide content, figures

Next calls:

QIBA fMRI Technical Committee, [Wednesday, October 24 2012 at 11 am CT](#)

QIBA fMRI Reproducibility Working Group, [Thursday, October 25, 2012 at 10 am CT](#)